

Letter of intent (LOI)

Interested parties should submit a Letter of Intent (LOI) on or before February 28, 2020 for each individual proposal. Letter of intent should include applicant contact information and seven questions about proposed study. More details about SAM study selection process, eligibility and funding availability can be found in SAM REF guidelines in SAM Effectiveness webpage.

Email address *

anand.jayakaran@wsu.edu

Applicant contact information

Applicant Full Name *

Anand Jayakaran

Organization *

Washington Stormwater Center

Phone number *

2534454523

Proposed Study Information

1. Proposed Study Title *

Continuation of Tree Effectiveness Study

2. Which topic(s) from the SWG's priority list do you propose to address? *

The proposed study topic should be in the SWG's priority list

tree credits

3. Select type of project being proposed *

- Survey
- Literature Review & Synthesis
- Environmental Sampling Study
- Other

4. Short Description of the Proposed Study *

250 word limit: describe how results will assess effectiveness and advance regional understanding and permittees' implementation of specific stormwater management approaches

[Brandi - I emailed you way too late to ask if this was a good idea and if this was the venue to see additional funding. Please please delete or remove if you think this is a terrible idea or way to go about it]

At the end of the current tree hydrology study, we will have about two years data from 64 trees across 4 species. The data will reveal canopy interception, transpiration, and stem flow associated with these trees over the two-year period. However, we are proposing to extend that study for an additional two years giving us a larger data set, greater statistical power, and a greater confidence that the data represent a longer-term characterization of tree water use. These data would further our understanding of how these trees manage incident rain fall in wet and dry seasons.

5. What type information will be collected or analyzed for this proposed study? *

If existing permittees' data are needed, specify the type, and the expected timing of a request for existing information from Permittees

We will continue to collect canopy interception, stem flow, transpiration, and soil moisture conditions around 64 native trees growing in the Olympia region.

6. What are the anticipated measurable outcomes and key deliverables that will be produced by the proposed study, and how will they be used by Permittees and the Washington State Department of Ecology? *

Anticipated measurable outcomes are: A technical report that characterizes stormwater assimilation rates of individual trees in highly controlled soil/water conditions growing in Western Washington climatic conditions over a four-year period.

7. Permittees or agencies you are proposing to coordinate with (provide staff names and contact information, if known) *

Enter "NA" if not applicable.

WDNR

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